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Attorney's Docket No.: 12251-036001

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled NUCLEIC ACID AMPLIFICATION, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Y. Rocky Tsao, Reg. No. 34,053  
John T. Kendall, Reg. No. 50,680  
Harold H. Fox, Reg. No. 41,498

Frank R. Occhiuti, Reg. No. 35,306  
John F. Hayden, Reg. No. 37,640  
Jeffrey D. Hsi, Reg. No. 40,024

Address all telephone calls to Y. ROCKY TSAO at telephone number (617) 542-5070.

Direct all correspondence to Customer Number:

**\*26161\***  
26161

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full Name of Inventor: HAI SUN LIAO

Inventor's Signature: Hai Sun Liao

Date: 1/10/03

Residence Address:

Sharon, MA

Citizenship:

China

Post Office Address:

228 East Foxboro Street  
Sharon, MA 02067

Full Name of Inventor: AMY ANDERSON DEIK

Inventor's Signature: Amy Anderson Deik

Date: 1-10-03

Residence Address:

Wakefield, MA

Citizenship:

United States

Post Office Address:

224 Albion St., Unit 1  
Wakefield, MA 01880

Attorney's Docket No.: 12251-036001

**Combined Declaration and Power of Attorney**

Page 2 of 3 Pages

Full Name of Inventor: NATALIA MAMAEVA

Inventor's Signature:

Natalia MamerDate: 1/10/03

Residence Address:

West Roxbury, MA

Citizenship:

Russian Federation

Post Office Address:

2 Franclaire Drive  
West Roxbury, MA 02132

Full Name of Inventor: CAROLINE NGAARA WOODWARD

Inventor's Signature:

C. NgaraDate: 1/10/03

Residence Address:

Boston, MA

Citizenship:

Kenya

Post Office Address:

1086 Commonwealth Avenue, Apt. 105  
Boston, MA 02215

Full Name of Inventor: SHIN-YIH CHEN

Inventor's Signature:

Shin-Yih ChenDate: 1/10/03

Residence Address:

Wellesley, MA

Citizenship:

United States

Post Office Address:

33 Colby Road  
Wellesley, MA 02482

Full Name of Inventor: YIH HUANG

Inventor's Signature:

Yih HuangDate: 1/10/03

Residence Address:

Lexington, MA

Citizenship:

United States

Post Office Address:

67 Sherburne Road South  
Lexington, MA 02421

Full Name of Inventor: MING SHEN

Inventor's Signature:

Ming ShenDate: 1/10/03

Residence Address:

Guilford, CT

Citizenship:

United States

Post Office Address:

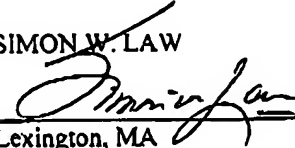
26 Bar Gate Road  
Guilford, CT 06437

Attorney's Docket No.: 12251-036001

**Combined Declaration and Power of Attorney**

Page 3 of 3 Pages

Full Name of Inventor: SIMON W. LAW

Inventor's Signature: Date: 1/10/03

Residence Address:

Lexington, MA

Citizenship:

United States

Post Office Address:

38 Greenwood Street  
Lexington, MA 02421

Full Name of Inventor: TAI-NANG HUANG

Inventor's Signature: Date: 01/10/03

Residence Address:

Lexington, MA

Citizenship:

United States

Post Office Address:

67 Sherburne Road South  
Lexington, MA 02421

Attorney's Docket No.: 12251-036002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Liao et al. Art Unit : -  
Serial No. : Filed Herewith Examiner : -  
Filed : 31 March, 2004  
Title : NUCLEIC ACID AMPLIFICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

POWER OF ATTORNEY BY ASSIGNEE AND ELECTION OF  
ASSIGNEE TO CONDUCT PROSECUTION TO EXCLUSION OF INVENTORS

The undersigned, as authorized representative of the assignee of the entire right, title and interest in the above-identified application, hereby appoints:

Y. Rocky Tsao, Reg. No. 34,053

Ramon K. Tabtiang, Reg. No. 55,658

Leda I. Trivinos, Reg. No. 50,635

Laurie Butler Lawrence, Reg. No. 46,593

Robert C. Nabinger, Reg. No. 33,431

as its attorneys and agents to prosecute the application and to transact all business in the Patent and Trademark Office connected therewith with full powers of substitution and revocation, said appointment to be to the exclusion of the inventors and their attorneys and agents in accordance with the provisions of 37 CFR §3.71 et seq. of the Patent Office Rules of Practice.

Ownership is in the assignee by virtue of the assignment document for the parent application, Serial No. 10/341,199, recorded February 27, 2003 at Reel 013792, Frame 0720 (copy enclosed). The documents evidencing ownership have been reviewed and to the best of the assignee's knowledge and belief, title is in the assignee.

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. FL 964753192US

March 31, 2004  
Date of Deposit

Applicant : Liao et al.  
Serial No. :  
Filed :  
Page : 2 of 2

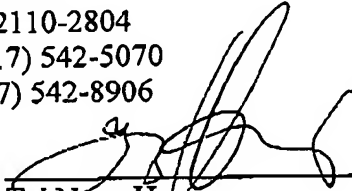
Attorney's Docket No.: 12251-036002

Please direct all communications regarding the application to Y. Rocky Tsao at the address and telephone numbers indicated below:

PTO Customer Number: 26161

FISH & RICHARDSON P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

Signature:

Name:   
Title: Chief Executive Officer  
Assignee: Linden Technologies, Inc.

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

20834182



UNITED STATES  
PATENT AND  
TRADEMARK OFFICE

YR1  
RKT

JULY 14, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov

FISH & RICHARD P.C.  
Y. ROCKY TSAO  
225 FRANKLIN STREET  
BOSTON, MA 02110-2804



\*102378242A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/27/2003

REEL/FRAME: 013792/0720  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LIAO, HAISUN

DOC DATE: 01/02/2003

ASSIGNOR:  
DEIK, AMY ANDERSON

DOC DATE: 01/31/2003

ASSIGNOR:  
MAMAEVA, NATALIA

DOC DATE: 02/05/2003

ASSIGNOR:  
WOODWARD, CAROLINE NGAARA

DOC DATE: 01/31/2003

ASSIGNOR:  
CHEN, SHIN-YIH

DOC DATE: 01/31/2003

ASSIGNOR:  
HUANG, YIH

DOC DATE: 01/31/2003

ASSIGNOR:  
SHEN, MING

DOC DATE: 01/31/2003

RECEIVED

JUL 17 2003

FISH & RICHARDSON,  
BOSTON OFFICE

• No Docketing Required •	
Reviewed By Practice Systems	
Initials:	<i>Qm</i>
Reviewed By Billing Secretary	
Initials:	

013792/0720 PAGE 2

ASSIGNOR:  
LAW, SIMON W.

DOC DATE: 01/31/2003

ASSIGNOR:  
HUANG, TAI-NANG

DOC DATE: 01/31/2003

ASSIGNEE:  
LINDEN TECHNOLOGIES, INC.  
35 CABOT ROAD  
WOBURN, MASSACHUSETTS 01801

SERIAL NUMBER: 10341199  
PATENT NUMBER:

FILING DATE: 01/10/2003  
ISSUE DATE:

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



03-03-2003

RE



EET

102378242

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): **2.27.03**  
Haisun Liao, Amy Anderson Deik, Natalia  
Mamaeva, Caroline Ngaara Woodward, Shin-Yih  
Chen, Yih Huang, Ming Shen, Simon W. Law  
and Tai-Nang Huang

Additional name(s) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other:

Execution Date: 01/31/2003 and 02/05/2003

2. Name and address of receiving party(ies):

Linden Technologies, Inc.  
35 Cabot Road  
Woburn, MA 01801

Additional names/addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No(s):

10/341,199

B: Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name/address of party to whom correspondence concerning  
document should be mailed:

Y. ROCKY TSAO  
Fish & Richardson P.C.  
225 Franklin Street  
Boston, Massachusetts 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR §3.41): \$40

- ☒ Enclosed  
☐ Authorized to charge Deposit Account.

8. Deposit Account No.: 06-1050

Please apply any additional charges, or any credits, to our  
Deposit Account No. 06-1050.

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9. Statement and Signature: *To the best of my knowledge and belief, the foregoing information is true and correct and  
any attached copy is a true copy of the original document.*

Y. Rocky Tsao  
Reg. No. 34,053  
Name of Person Signing

Signature

Date

Total number of pages including coversheet, attachments and document: 6

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03/03/2003 GT0N11 00000044 10341199

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as  
first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents,  
Washington, D.C. 20231.

2-21-03  
Date of Deposit

Cassandra Beepot  
Signature

Cassandra Beepot  
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, we, HAISUN LIAO of Sharon, Massachusetts, AMY ANDERSON DEIK of Wakefield, Massachusetts, NATALIA MAMAEVA of West Roxbury, Massachusetts, CAROLINE NGAARA WOODWARD of Boston, Massachusetts, SHIN-YIH CHEN of Wellesley, Massachusetts, YIH HUANG of Lexington, Massachusetts, MING SHEN of Guilford, Connecticut, SIMON W. LAW of Lexington, Massachusetts, and TAI-NANG HUANG of Lexington, Massachusetts, hereby assign to Linden Technologies, Inc., a Delaware corporation having a place of business at:

35 Cabot Road  
Woburn, MA 01801; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled NUCLEIC ACID AMPLIFICATION, filed 01/10/2003, and assigned U.S. Serial Number 10/341,199; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of January, 2003.  
HAISUN LIAO Haisun Liao L.S.

State of Massachusetts :  
: ss.  
County of Woburn :

Before me this 31<sup>st</sup> day of January, 2003, personally appeared HAISUN LIAO known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein contained.

M. Champa  
Notary Public  
My Commission Expires: MARY CHAMPA  
Notary Public  
My Commission Expires Sept. 10, 2004



IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of January, 2003.

Amy Anderson Deik : L.S.  
AMY ANDERSON DEIK

State of Massachusetts :

County of Middlesex : ss.

Before me this 31<sup>st</sup> day of January, 2003, personally appeared AMY ANDERSON DEIK known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein contained.



Mary Champa  
Notary Public

My Commission Expires:

MARY CHAMPA  
Notary Public  
My Commission Expires Sept. 10, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 5<sup>th</sup> day of February, 2003.

Natalia Mamaeva : L.S.  
NATALIA MAMAEVA

State of Massachusetts :

County of Middlesex : ss.

Before me this 5<sup>th</sup> day of February, 2003, personally appeared NATALIA MAMAEVA known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein contained.



Mary Champa  
Notary Public

My Commission Expires:

MARY CHAMPA  
Notary Public  
My Commission Expires Sept. 10, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of JANUARY, 2003.

Caroline L.S.  
CAROLINE NGAARA WOODWARD

State of Massachusetts

County of Middlesex : SS.

Before me this 31<sup>st</sup> day of January, 2003, personally appeared  
CAROLINE NGAARA WOODWARD known to me to be the person whose name is subscribed to the  
foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the  
purposes therein contained.



Mary Champa  
Notary Public  
My Commission Expires:

MARY CHAMPA  
Notary Public  
My Commission Expires Sept. 10, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of January, 2003.

Shin-Yih Chen L.S.  
SHIN-YIH CHEN

State of Massachusetts :

County of Middlesex : SS.

Before me this 31<sup>st</sup> day of January, 2003, personally appeared  
SHIN-YIH CHEN known to me to be the person whose name is subscribed to the foregoing Assignment  
and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein  
contained.



Mary Champa  
Notary Public  
My Commission Expires:

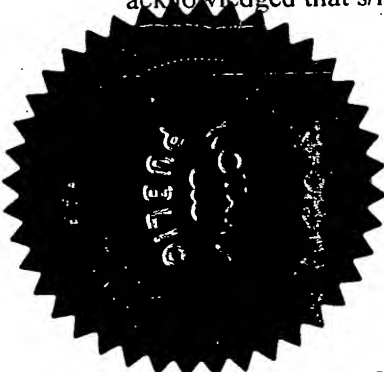
MARY CHAMPA  
Notary Public  
My Commission Expires Sept. 10, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
 this 31<sup>st</sup> day of January, 2003.  
YIH HUANG L.S.

State of Massachusetts :  
 : SS.  
 County of Middlesex :

Before me this 31<sup>st</sup> day of January, 2003, personally appeared YIH HUANG known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein contained.

MARY CHAMPA  
 Notary Public  
 My Commission Expires: Sept. 10, 2004



IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
 this 31<sup>st</sup> day of January, 2003.  
MING SHEN L.S.

State of Massachusetts :  
 : SS.  
 County of Middlesex :

Before me this 31<sup>st</sup> day of January, 2003, personally appeared MING SHEN known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein contained.

MARY CHAMPA  
 Notary Public  
 My Commission Expires: Sept. 10, 2004



IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of January, 2003.

*Simon W. Law* L.S.  
SIMON W. LAW

State of Massachusetts

: ss.  
County of Middlesex :

Before me this 31<sup>st</sup> day of January, 2003, personally appeared  
SIMON W. LAW known to me to be the person whose name is subscribed to the foregoing Assignment  
and acknowledged that s/he executed the same as his/her free act and deed for the purposes therein  
contained.

*Mary Champa*  
Notary Public  
My Commission Expires:

**MARY CHAMPA**  
Notary Public  
My Commission Expires Sept. 10, 2004

IN WITNESS WHEREOF, I hereto set my hand and seal at Woburn, MA,  
this 31<sup>st</sup> day of January, 2003.

*Tai-Nang Huang* L.S.  
TAI-NANG HUANG

State of Massachusetts

: ss.  
County of Middlesex :

Before me this 31<sup>st</sup> day of January, 2003, personally appeared  
TAI-NANG HUANG known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that s/he executed the same as his/her free act and deed for the purposes  
therein contained.

*Mary Champa*  
Notary Public  
My Commission Expires:

**MARY CHAMPA**  
Notary Public  
My Commission Expires Sept. 10, 2004